

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334921

Luminaire Tested: **S124IP-S590U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S590U935-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 590 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.3 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

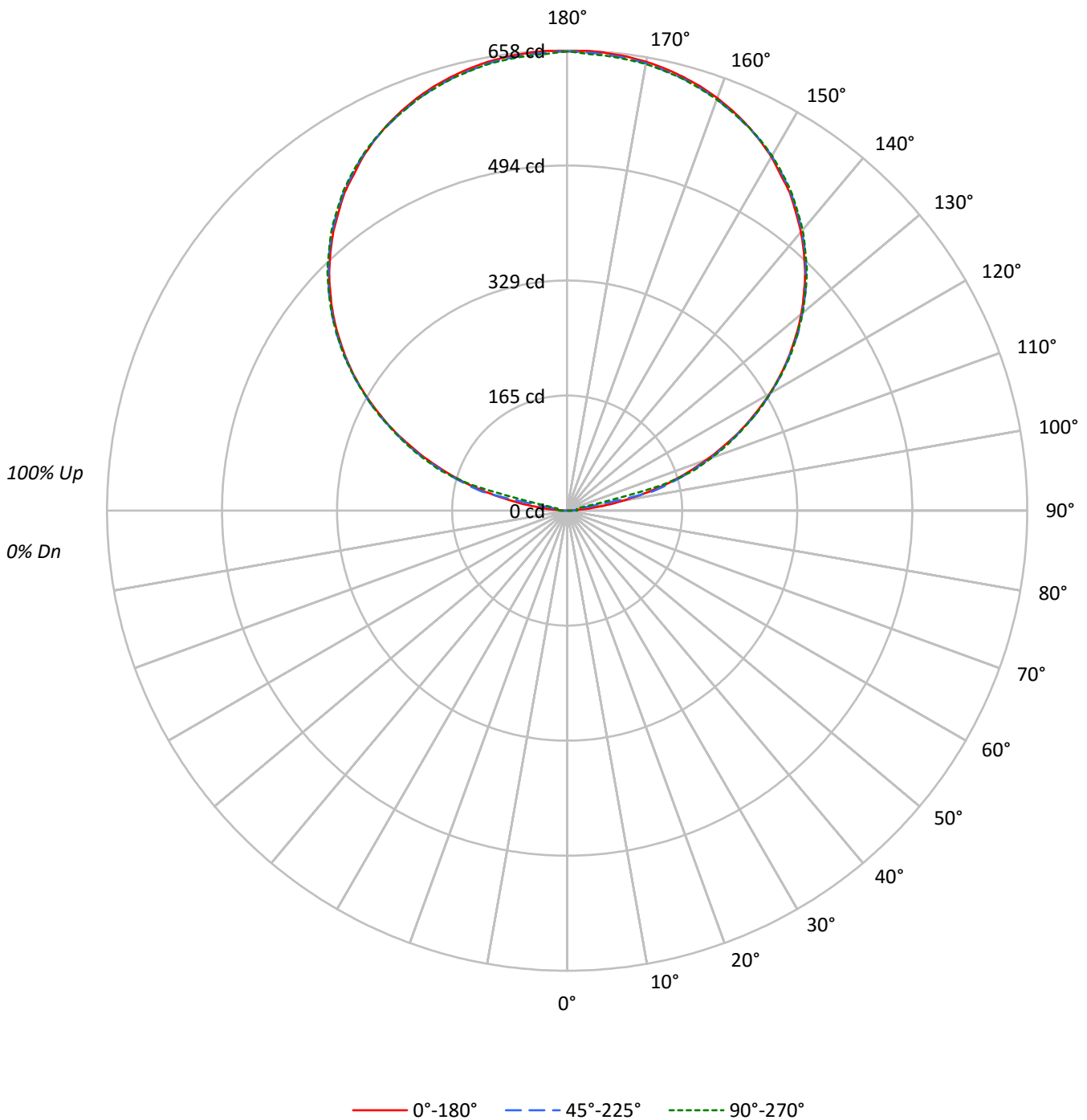
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.4	0.1
90°-100°	21.8	1.1
100°-110°	143.5	7.1
110°-120°	274.1	13.5
120°-130°	348.0	17.1
130°-140°	372.3	18.3
140°-150°	348.1	17.1
150°-160°	280.7	13.8
160°-170°	181.0	8.9
170°-180°	62.4	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.4	0.1
90°-120°	439.5	21.6
90°-150°	1507.8	74.2
90°-180°	2032.0	99.9
0°-180°	2033.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	7	11	14	15	1
95°	27	10	11	14	14	33
105°	148	151	153	158	140	155
115°	276	278	277	278	278	272
125°	388	390	389	390	391	347
135°	481	481	483	484	485	371
145°	555	556	556	557	558	347
155°	608	609	608	610	608	281
165°	642	640	640	643	639	181
175°	657	654	654	659	653	63
180°	657	657	657	657	657	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.5	6.9	10.8	13.8	14.7
92.5°	7.4	6.4	10.3	13.3	13.3
95°	27.0	10.3	10.8	13.8	14.2
97.5°	51.6	62.4	10.8	13.3	13.8
100°	80.5	89.4	21.6	13.3	13.8
102.5°	113.0	118.9	124.7	14.2	14.2
105°	147.8	150.8	153.2	157.7	140.0
107.5°	179.8	181.2	184.7	187.1	189.1
110°	212.2	213.6	216.6	217.6	219.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.6	246.6	247.5	247.0	249.0
115°	276.0	277.5	277.0	278.0	278.0
117.5°	305.0	307.0	308.4	307.9	307.9
120°	334.5	336.4	335.9	336.9	335.9
122.5°	362.0	362.9	363.9	364.4	363.4
125°	388.0	390.0	389.0	390.5	390.9
127.5°	413.0	413.5	416.0	415.5	415.0
130°	437.1	437.6	439.1	439.6	439.6
132.5°	459.2	460.2	462.2	462.7	462.2
135°	481.3	480.8	482.8	483.8	484.8
137.5°	501.0	501.0	503.4	504.4	503.9
140°	520.1	521.1	522.1	523.6	524.0
142.5°	537.3	539.3	539.8	540.7	540.7
145°	555.0	556.5	556.5	556.9	557.9
147.5°	568.7	571.7	571.2	571.7	572.2
150°	584.0	585.9	585.4	585.4	585.9
152.5°	596.7	598.2	597.2	598.2	597.7
155°	608.5	609.0	607.5	609.5	608.0
157.5°	618.8	618.8	616.9	619.3	616.9
160°	627.7	626.2	625.7	628.7	625.7
162.5°	635.5	633.6	633.1	636.0	632.6
165°	641.9	639.5	639.5	643.4	639.0
167.5°	647.3	644.9	644.4	648.8	643.9
170°	651.7	648.8	649.3	653.2	648.3
172.5°	654.7	651.7	652.2	656.2	650.8
175°	656.6	653.7	654.2	658.6	652.7
177.5°	658.1	654.7	655.7	659.6	653.7
180°	656.6	656.6	656.6	656.6	656.6

(END OF REPORT)